



U.S. Department
of Transportation
**Federal Highway
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

Refer to: HSA-1/WZ-57

Mr. William M. Korman, Jr.
President, Korman Signs
3029 Lincoln Avenue
Richmond, Virginia 23228-4295

Dear Mr. Korman:

Thank you for your letter of July 24, requesting Federal Highway Administration acceptance of your company's Model SS548V portable sign stand as a crashworthy traffic control device for use in work zones on the National Highway System (NHS). This stand is a variation to the stand SS548CA which we found acceptable in our letter WZ-29 dated February 17, 2000.

Accompanying your letter was an analysis comparing the subject stand to the one we had previously found acceptable. You requested that we find Model SS548V acceptable under the provisions of National Cooperative Highway Research Program Report 350 "Recommended Procedures for the Safety Performance Evaluation of Highway Features."

Model SS548CA was accepted for use with roll-up and with Alpolic signs. It was fitted with brackets to hold the rigid Alpolic material. Your request is to remove these brackets so that the stand may only be used with roll-up signs. Also, the telescoping mast is slightly shorter than the tested stand, and the mast material is aluminum rather than steel. The tested stand had a mass of 14.5 kg and the modified stand, Model SS548V, has a mass of 12.3 kg.

We find that the requested stand, Model SS548V, shown in the enclosed drawing for reference, is acceptable for use on the NHS, within the range of conditions tested for stand SS548CA. All other conditions in our letter WZ-29 remain in effect. This letter shall be considered Acceptance Letter WZ-57.

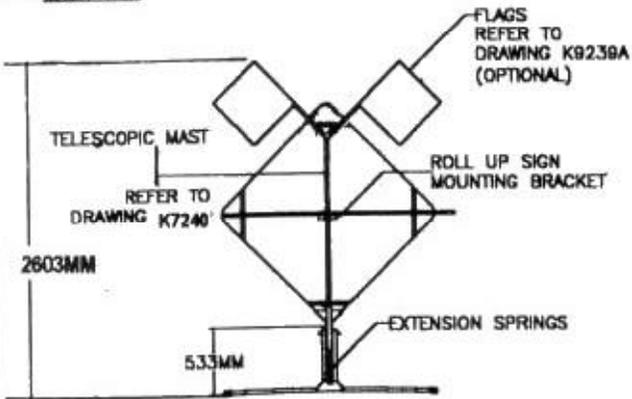
Sincerely yours,

Frederick G. Wright, Jr.
Program Manager, Safety

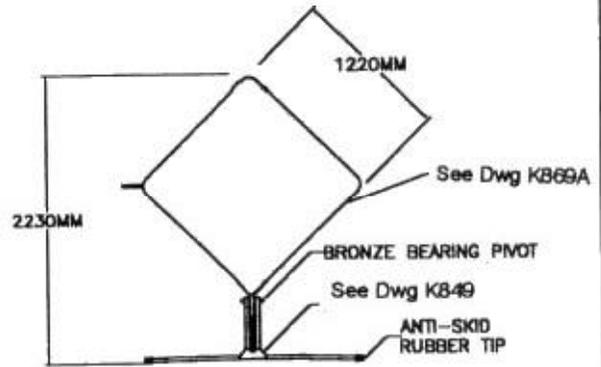
Enclosure

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
SS548V				

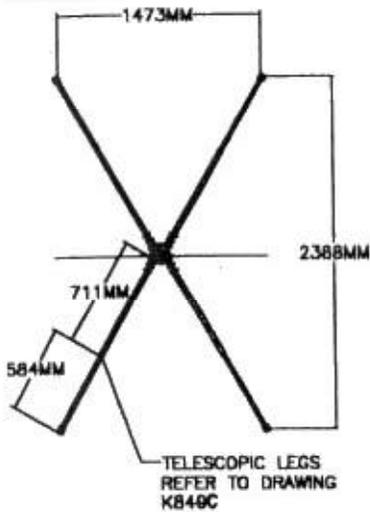
BACK VIEW



FRONT VIEW



TOP VIEW



DETAIL -A-

BASE
31.75MM X 2.1MM SQUARE STEEL TUBING WITH 4.91MM STEEL LEG MTG.FLANGES

LEGS
TELESCOPIC 31.75MM AND 25.42MM SQUARE ALUMINUM TUBING WITH 2.56MM AND 2.46MM WALL THICKNESS, RESPECTIVELY

2 PC. TELESCOPIC MAST WITH 25.4MM AND 19MM SQUARE ALUMINUM TUBING

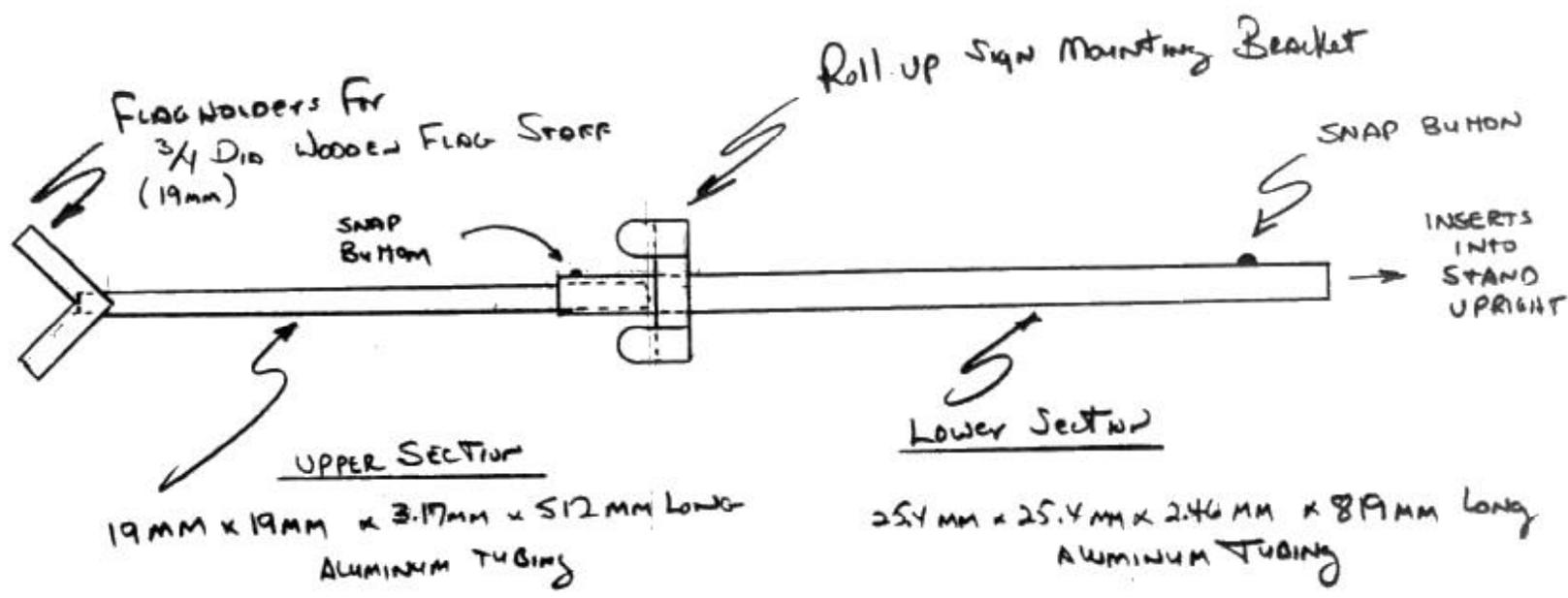
SPRINGS - EXTENSION TYPE
FINISH - ZINC



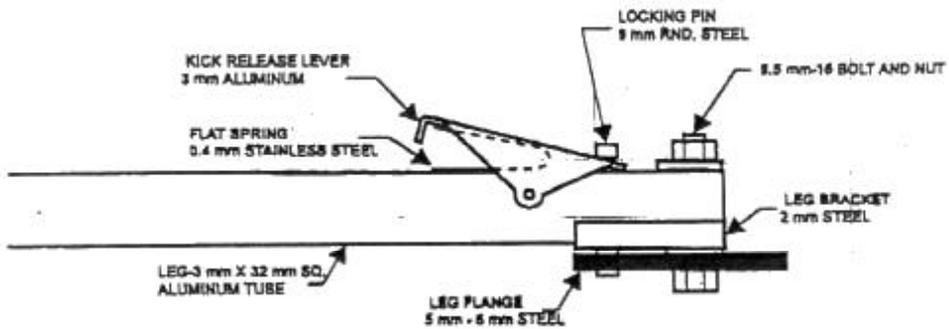
Korman Signs

SCHMATIC DRAWING FOR MODEL SS548V
FLEXIBLE SIGN STAND WITH A 4848DF ROLL UP SIGN

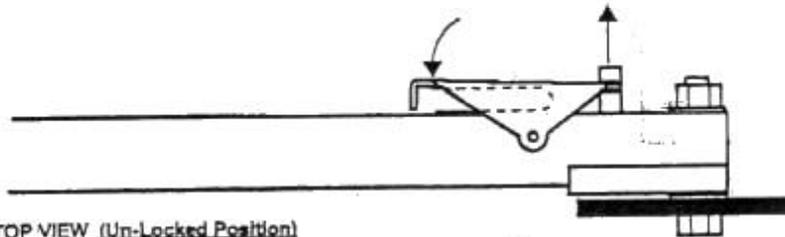
SIZE	FSCM NO.	DWG NO.	REV
		C9229AA	
SCALE - NOT TO SCALE	9/29/99	SHEET	DSC



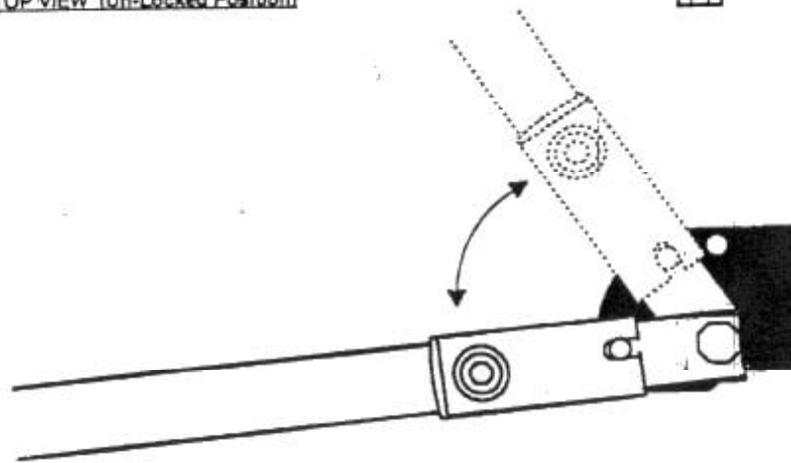
Korman Signs	
Schematic Drawing SS548V Sign Stand 2 Piece Aluminum Telescopic Mast	
NO SCALE	
7/24/00	(K)
W.G. NO. K7240	



TOP VIEW (Locked Position)



TOP VIEW (Un-Locked Position)



SIDE VIEW



Korman Signs
INC.

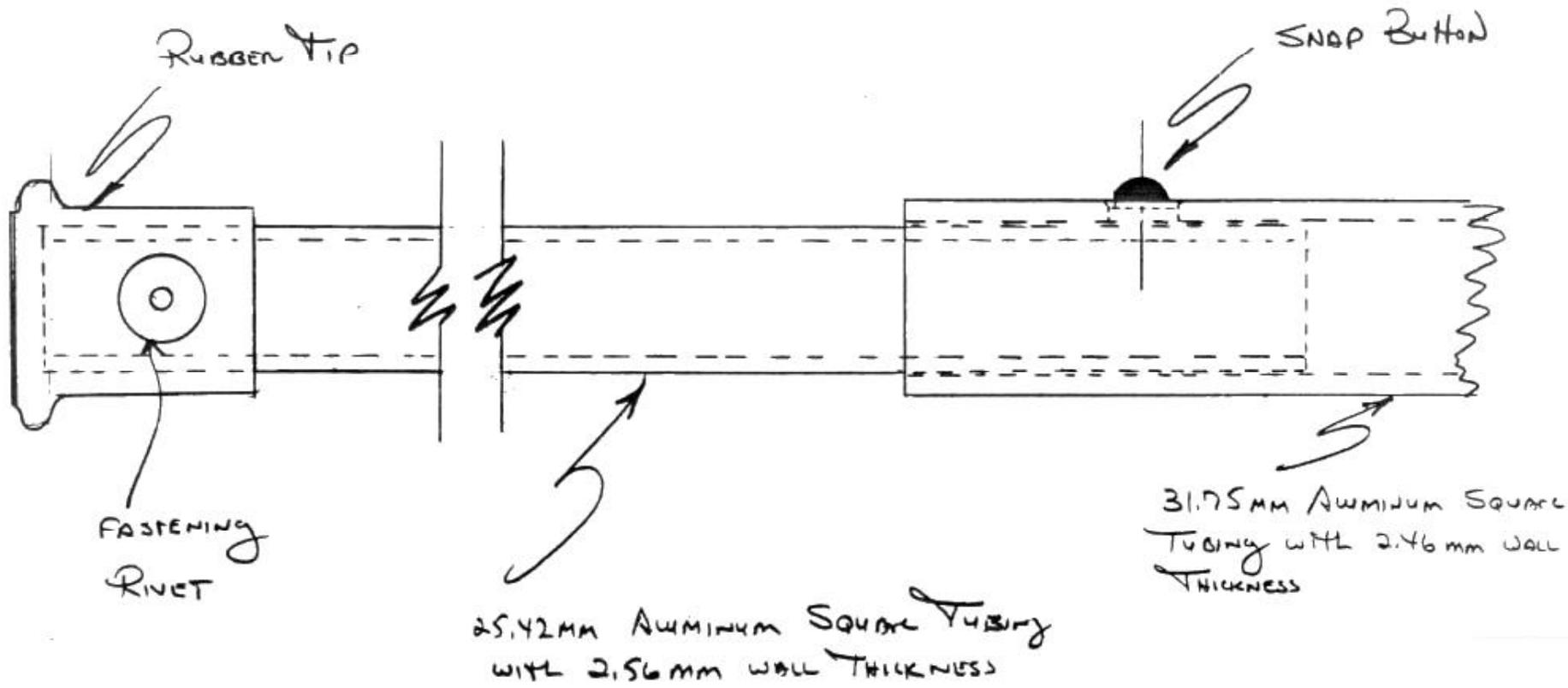
Schematic Drawing of Telescopic Leg
with Kick Release Lever Pin Mechanism

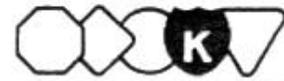
NO TRUE SCALE

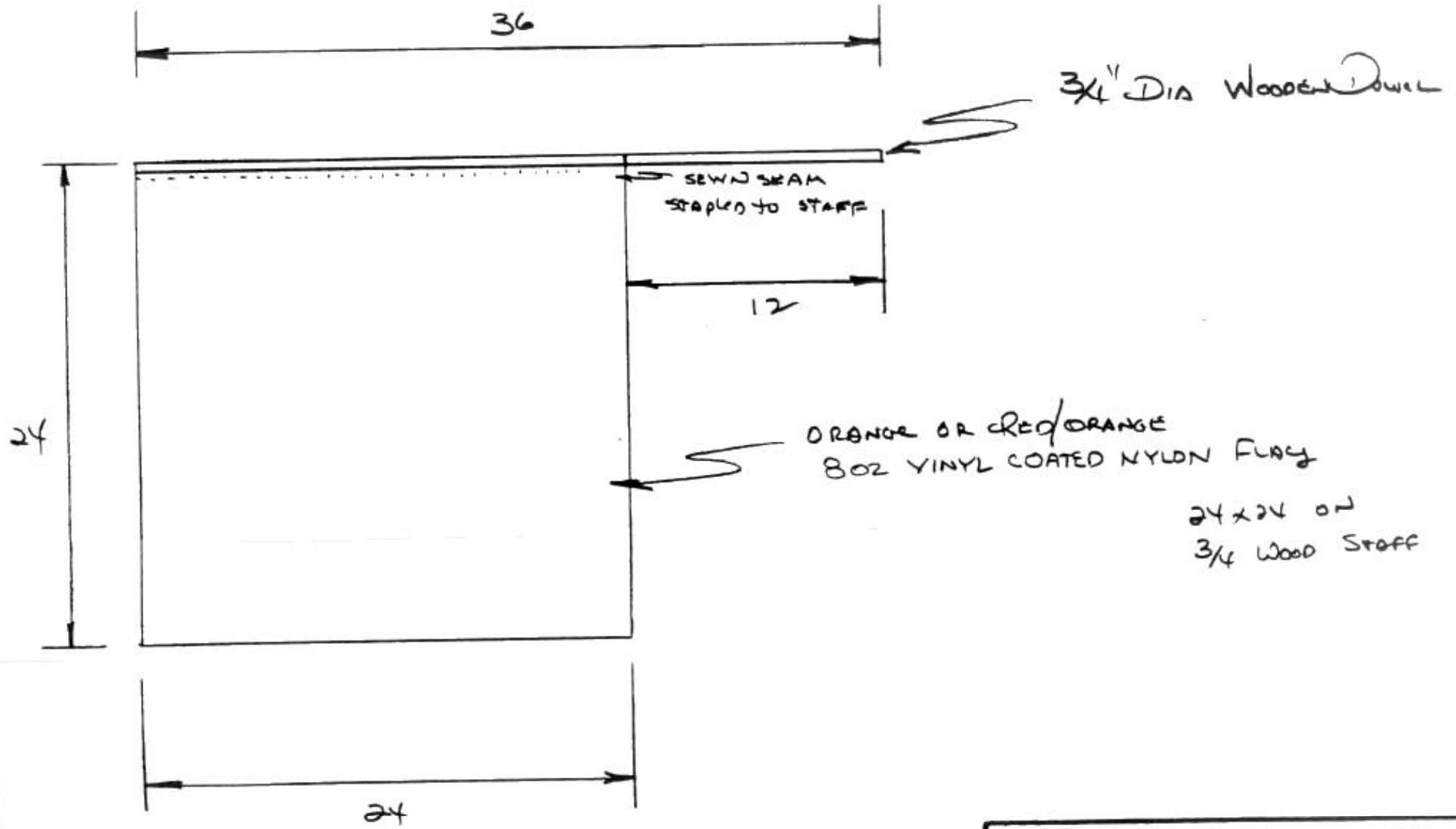
8/4/99



LEG. NO. K819

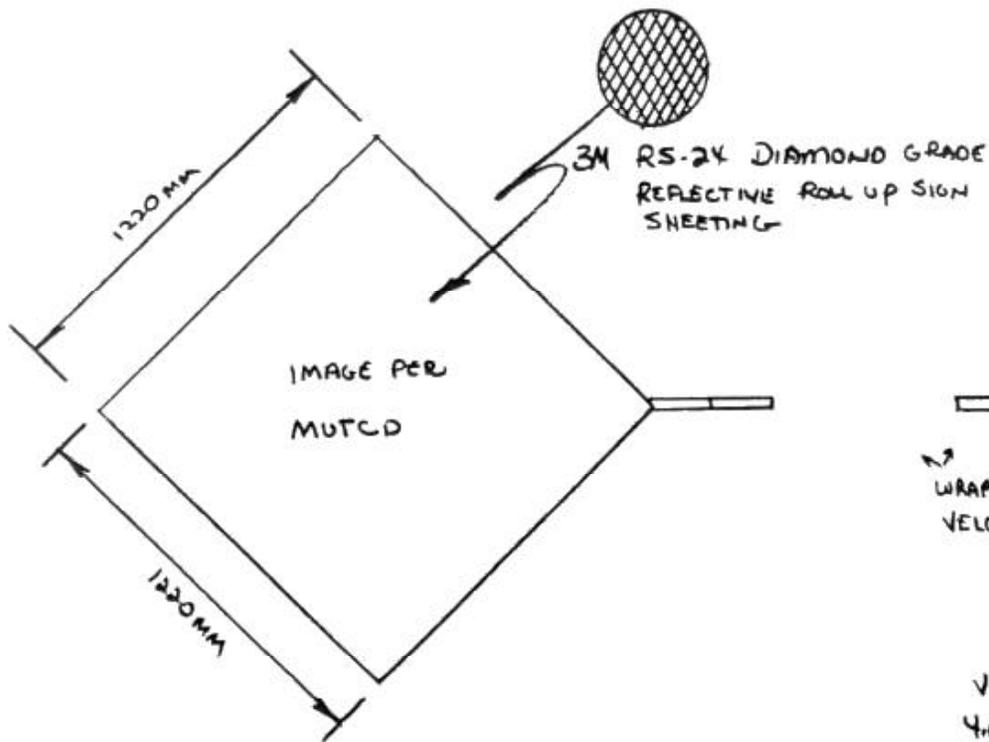


 Korman Signs		
Schematic Drawing for Telescopic Leg Connection		
NO TRUE SCALE		
8/1/99		DWG. NO. K849 C

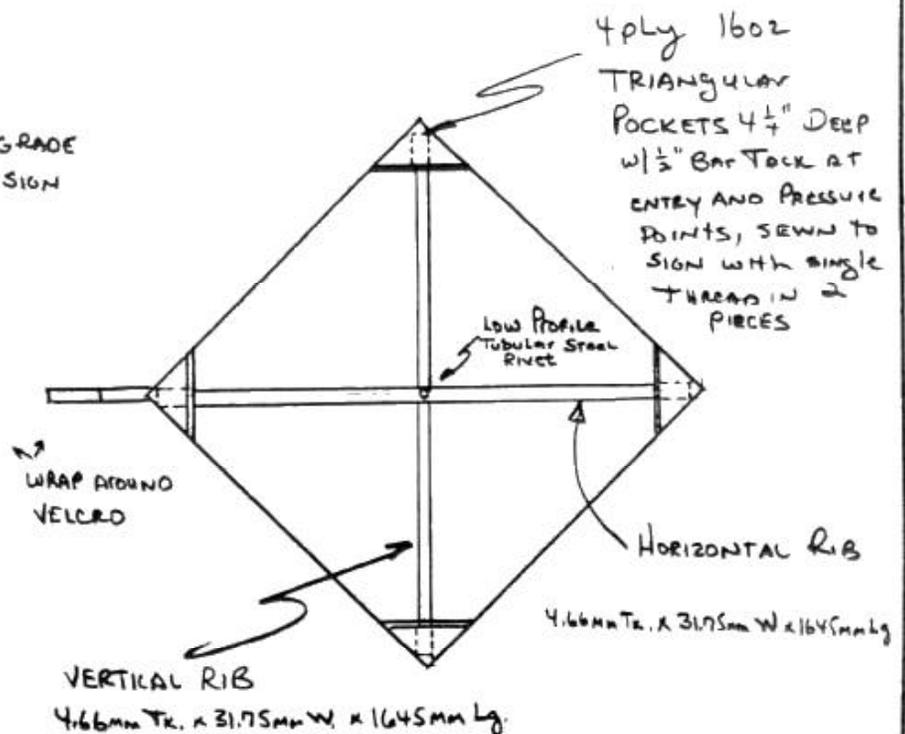


NOTE:
FOR FLAG ADAPTED FOR USE WITH
ROLL UP SIGNS SEE DWG. C10289

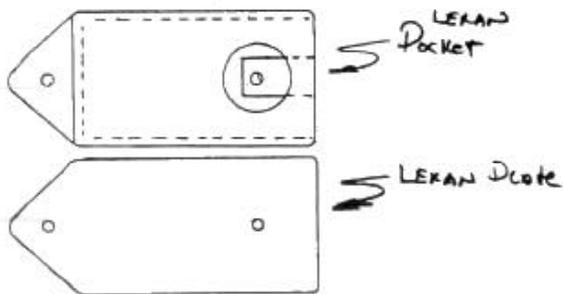
 Korman Signs	
SCHEMATIC DWG. MODEL VFO2436 ORANGE WARNING FLAG	
NO SCALE	
9/23/99	DWG. NO. K92391



FRONT VIEW



BACK VIEW



ALTERNATE POCKET ARRANGEMENT

MOUNT LEXAN pocket in all 4 corners. SANDWICH SIGN BETWEEN PLATE AND PLATE WITH POCKET RIVETS

Crossbracing (Ribs) Data

Material: Unidirectional Fiberglass Reinforced Iso-Polyester Rectangular Bar. Safety Orange with UV Light Inhibitor

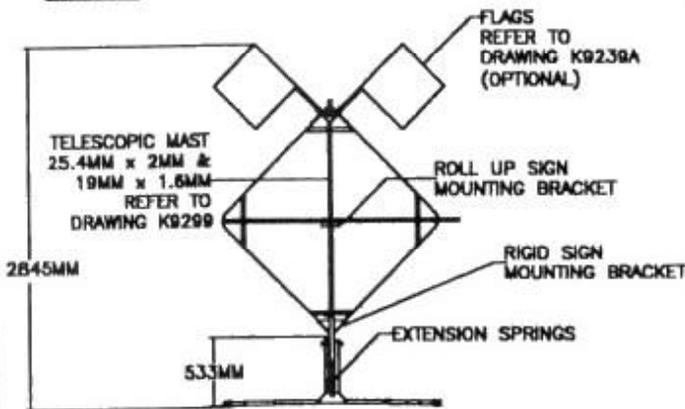
Physical Properties and Test Procedures:

Flexural Strength ASTM D4476/D790 = 110 x 10 psi
 Flexural Modulus ASTM D4476/D790 = 5.3 x 10 psi
 Fiber Content by Weight = 65% Minimum
 Density ASTM D792 = .065 Lbs/in
 Barcol Hardness ASTM D2583 = 64 Minimum
 Water Absorption ASTM D570 = .05%

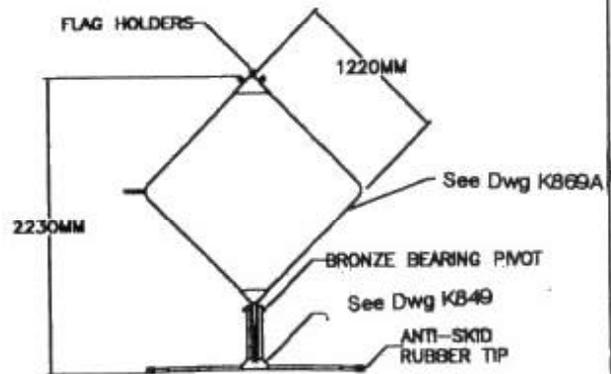
Schematic Drawing for Model 4848DF Roll Up Sign	
No True Scale	
8/6/99	10.K869A

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
SS548CA				

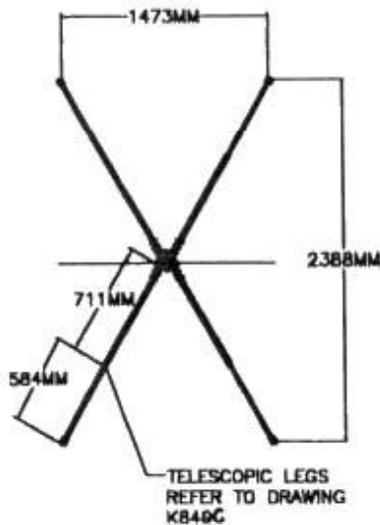
BACK VIEW



FRONT VIEW



TOP VIEW



DETAIL -A-

BASE
31.75MM X 2.1MM SQUARE STEEL TUBING WITH
4.91MM STEEL LEG MTG.FLANGES

LEGS

TELESCOPIC 31.75MM AND 25.42MM SQUARE ALUMINUM
TUBING WITH 2.58MM AND 2.46MM WALL THICKNESS,
RESPECTIVELY

2 PC. TELESCOPIC MAST WITH 25.4MM AND 19MM
SQUARE STEEL TUBING WITH 1.6MM AND 1.6MM WALL
THICKNESS, RESPECTIVELY

SPRINGS - EXTENSION TYPE

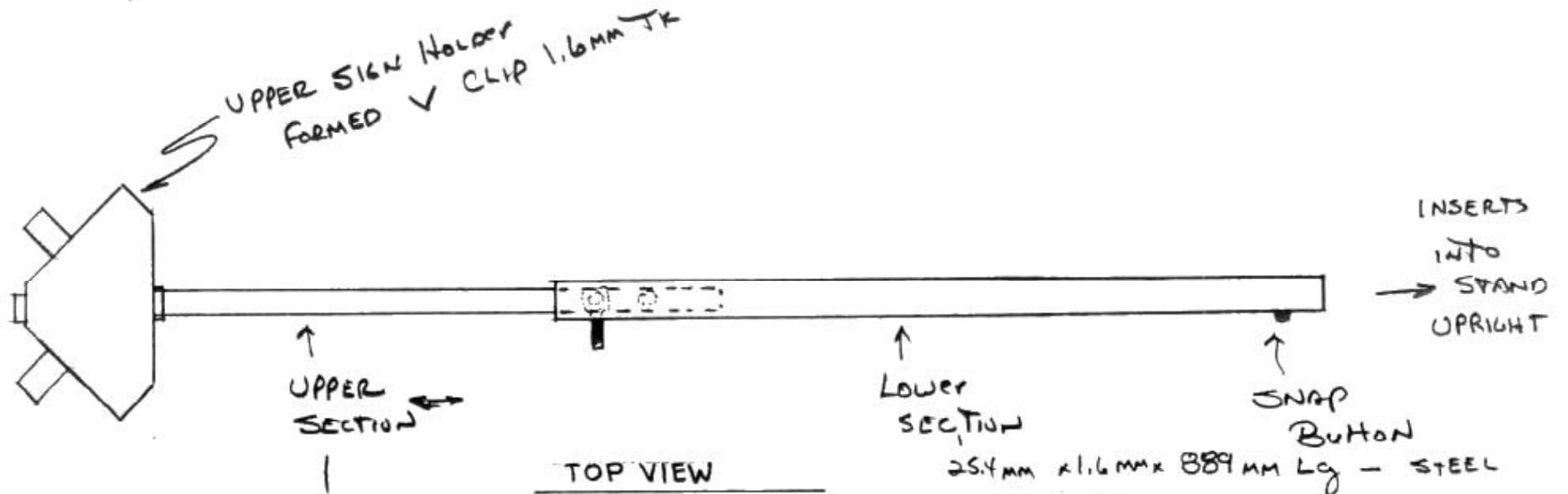
FINISH - ZINC



Korman Signs

SCHEMATIC DRAWING FOR MODEL SS548CA
FLEXIBLE SIGN STAND WITH A 4848DF ROLL UP SIGN

SIZE	FSCM NO.	DWG NO. C9229A	REV
SCALE - NOT TO SCALE	9/29/99	SHEET	DSC

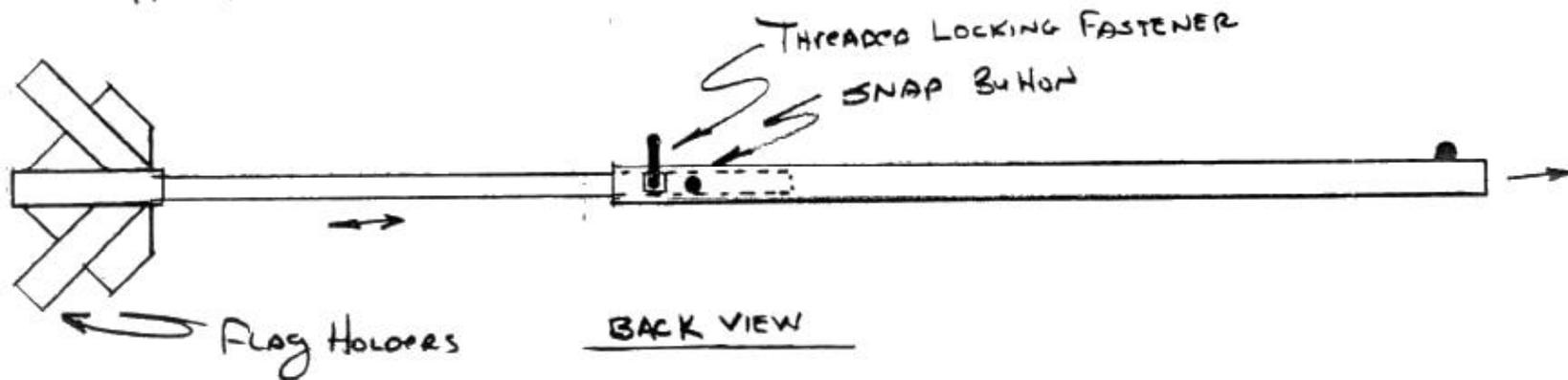


19mm x 1.6mm x 854mm - STEEL
OR

19mm x 3.17mm x 854mm - ALUMINUM

25.4mm x 1.6mm x 889mm Lg - STEEL
OR

25.4mm x 2.5mm x 889mm Lg - ALUMINUM



Notes:

Fully EXTENDED LENGTH - 1676 mm (66")
Fully COLLAPSED LENGTH - 991 mm (39")
FINISH ZINC OR ALUMINUM
FURNISHED IN STEEL OR ALUMINUM

SCHEMATIC DRAWING 2 DC TELESCOPIC MAST	
NO SCALE	
9/29/99	DWG. NO. K9299